



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

## NOTICE OF ACCEPTANCE (NOA)

**Firestone Building Products Company, LLC**  
250 West 96<sup>th</sup> Street  
Indianapolis, IN 46260

**MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION**

11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786)315-2590 F (786) 31525-99

[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Firestone BASEGARD SA Modified Bitumen Roof Systems for Concrete Decks.

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 12-0508.02 and consists of pages 1 through 60.  
The submitted documentation was reviewed by Alex Tigera.



**NOA No.: 13-0522.06**  
**Expiration Date: 02/07/18**  
**Approval Date: 02/27/14**  
**Page 1 of 60**

## ROOFING SYSTEM APPROVAL

**Category:** Roofing  
**Sub-Category:** Modified  
**Material:** APP, SBS  
**Deck Type:** Concrete  
**Maximum Design Pressure** -247.5 psf.

### TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u>                | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u>  |
|-------------------------------|-------------------|---------------------------|---|
| BASEGARD SA                   | 39.4" x 65' 3"    | ASTM D6163                | Fiberglass reinforced SBS modified bitumen, self-adhering base sheet with a smooth sanded surface.                    |
| APP 180                       | 39.4" x 32'10"    | ASTM D6222                | Polyester reinforced APP modified bitumen, granule surfaced membrane with burn off film.                              |
| APP 180 UltraWhite            | 39.4" x 32'10"    | ASTM D6222                | Polyester reinforced APP modified bitumen, UltraWhite, granule surfaced membrane with burn off film.                  |
| APP 180 FR                    | 39.4" x 32'10"    | ASTM D6222                | Polyester reinforced, fire resistant APP modified bitumen, granule surfaced membrane with burn off film.              |
| APP 180 FR UltraWhite         | 39.4" x 32'10"    | ASTM D6222                | Polyester reinforced, fire resistant APP modified bitumen, UltraWhite granule surfaced membrane with burn off film.   |
| SBS Glass                     | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, SBS modified bitumen, granule surfaced membrane with sanded bottom surface.                    |
| SBS Glass Torch Base          | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, SBS modified bitumen ply with sanded top surface and burn off film.                            |
| SBS Poly Torch Base           | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen ply with sanded top surface with burn off film.                            |
| SBS Torch                     | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, granule surfaced with burn off film.                             |
| SBS Glass FR Torch            | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, fire resistant, SBS modified bitumen membrane, granule surfaced with burn off film.            |
| SBS Glass FR Torch UltraWhite | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with burn off film. |
| SBS Torch UltraWhite          | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, UltraWhite granule surfaced with burn off film.                  |
| SBS FR Torch                  | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified  |

# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u>                       | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u>  |
|--------------------------------------|-------------------|---------------------------|---|
| SBS FR Torch UltraWhite              | 39.4" x 33'6"     | ASTM D6164                | bitumen, granule surfaced with burn off film.<br>Polyester reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with burn off film. |
| SBS Cap                              | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, granule surfaced with sanded bottom surface.   |
| SBS Cap UltraWhite                   | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, UltraWhite granule surfaced with sanded bottom surface.  |
| SBS FR Cap                           | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with sanded bottom surface.  |
| SBS FR Cap UltraWhite                | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with sanded bottom surface.  |
| SBS Premium FR                       | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, granule surfaced with sanded bottom surface.   |
| SBS Premium FR UltraWhite            | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with sanded bottom surface.  |
| SBS Premium                          | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, granule surfaced with sanded bottom surface.   |
| SBS Premium Torch                    | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, granule surfaced with burn off film.   |
| SBS Premium Torch UltraWhite         | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane, UltraWhite granule surfaced with burn off film.  |
| SBS Premium FR Torch                 | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, granule surfaced with burn off film.   |
| SBS Premium FR Torch UltraWhite      | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with burn off film.  |
| I.S.O. Twin Pack Insulation Adhesive | 750 ml cartridges | Proprietary               | A two-component polyurethane insulation adhesive.   |
| I.S.O. Fix II                        | 30 lbs.           | Proprietary               | A single component polyurethane insulation adhesive.  |



# TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT:

TABLE 1

| <u>Product</u>          | <u>Dimensions</u> | <u>Test Specification</u> | <u>Product Description</u>  |
|-------------------------|-------------------|---------------------------|---|
| I.S.O. Stick            | 5 gal.            | Proprietary               | A two-component polyurethane insulation adhesive.   |
| SBS Base                | 39.4" x 50'       | ASTM D6163                | Fiberglass reinforced, SBS modified bitumen ply with sanded surfaces.   |
| SBS Premium Base        | 39.4" x 50'       | ASTM D6164                | Fiberglass reinforced, SBS modified bitumen ply with sanded surfaces.   |
| SBS Poly Base           | 39.4" x 50'       | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane with sanded surfaces.   |
| SBS Smooth              | 39.4" x 33'6"     | ASTM D6164                | Polyester reinforced, SBS modified bitumen membrane with sanded surfaces.   |
| SBS Glass FR            | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, fire resistant, SBS modified bitumen membrane, granule surfaced with sanded bottom surface.            |
| SBS Glass FR UltraWhite | 39.4" x 33'6"     | ASTM D6163                | Fiberglass reinforced, fire resistant, SBS modified bitumen membrane, UltraWhite granule surfaced with sanded bottom surface. |
| Ply VI                  | 39.4" x 160'6"    | ASTM D 2178               | Asphalt impregnated, glass fiber mat reinforced, roofing ply.   |
| Ply IV                  | 39.4" x 160'6"    | ASTM D 2178               | Asphalt impregnated, glass fiber mat reinforced, roofing ply.   |
| SA Primer               | 5 gal.            | Proprietary               | Polymer based primer.   |

**APPROVED INSULATIONS:****TABLE 2**

| <b><u>Product Name</u></b>       | <b><u>Product Description</u></b>                                       | <b><u>Manufacturer<br/>(With Current NOA)</u></b> |
|----------------------------------|---|---|
| ISO 95+ GL and tapered           | Polyisocyanurate insulation board                                       | Firestone Building Products                       |
| ISOGARD HD                       | High Density polyisocyanurate roof board with a coated fiberglass facer | Firestone Building Products                       |
| ISOGARD HD Composite             | Polyisocyanurate foam core laminated to ISOGARD HD board                | Firestone Building Products                       |
| DensDeck, DensDeck Prime         | Silicon treated gypsum  | G-P Gypsum  |
| RESISTA and tapered              | Polyisocyanurate insulation board with coated fiberglass facer          | Firestone Building Products                       |
| SECUROCK Gypsum-Fiber Roof Board | Gypsum roof board with fiber reinforcement                              | USG Corp.   |

**APPROVED FASTENERS:****TABLE 3**

| <b><u>Fastener Number</u></b> | <b><u>Product Name</u></b> | <b><u>Product Description</u></b>                 | <b><u>Dimensions</u></b> | <b><u>Manufacturer<br/>(With Current NOA)</u></b> |
|-------------------------------|----------------------------|---|--------------------------|---|
| 1.                            | Firestone Heavy-Duty       | Insulation and membrane fastener                  | Various                  | Firestone Building Products                       |
| 2.                            | Firestone Concrete Drive   | 1/4" diameter concrete deck fastener.             | Various                  | Firestone Building Products                       |
| 3.                            | Insulation Fastening Plate | Insulation plate for use with Firestone Fasteners | 3" round                 | Firestone Building Products                       |
| 4.                            | Firestone All-Purpose      | Insulation and membrane fastener                  | Various                  | Firestone Building Products                       |
| 5.                            | Coiled Metal Batten Strip  | Galvalume batten strip                            | 220' coil                | Firestone Building Products                       |



**EVIDENCE SUBMITTED:**

| <u>Test Agency</u>                              | <u>Test Identifier</u> | <u>Description</u>                 | <u>Date</u> |
|---|------------------------|------------------------------------|-------------|
| Factory Mutual Research Corp.                   | 3044812                | FM 4470                            | 05/04/12    |
|   | 3014537                | FM 4470                            | 11/29/04    |
|   | 3020395                | FM 4470                            | 06/14/10    |
|   | 3022492                | FM 4470                            | 01/17/05    |
|   | 3028093                | FM 4470                            | 10/26/07    |
|   | 3033218                | FM 4470                            | 08/12/08    |
|   | 3035017                | FM 4470                            | 04/15/09    |
|   | 3035560                | FM 4470                            | 01/11/10    |
|   | 3040795                | FM 4470                            | 03/24/11    |
|   | 3042665                | FM 4470                            | 05/04/12    |
|   | 3040109                | FM 4470                            | 03/09/11    |
|   | 3044047                | FM 4470                            | 05/17/12    |
|   | 3047398                | FM 4470                            | 08/15/13    |
| Underwriters Laboratories                       | R9516/11NK04032        | UL 790                             | 11/18/11    |
| Trinity   ERD                                   | F8800.01.08-R1         | ASTM D903 / TAS114                 | 01/17/08    |
|   | F36650.08.11-1-R2      | ASTM D6163                         | 05/08/12    |
|   | F36650.09.12           | ASTM D4601/ASTM D2178              | 09/04/12    |
|   | F31960.05.10-1         | ASTM D4977                         | 05/19/10    |
|   | F41070.08.12           | ASTM D6222 / TAS110                | 08/24/12    |
|   | F31960.08.10-1         | ASTM D4977                         | 08/25/10    |
| PRI Construction Materials<br>Technologies, LLC | FBP-018-02-01          | ASTM D6163                         | 09/07/04    |
|   | FBP-038-02-02          | ASTM D6164                         | 01/12/11    |
|   | FBP-038-02-03          | ASTM D6164                         | 01/12/11    |
|   | FBP-038-02-04          | ASTM D6164                         | 01/12/11    |
|   | FBP-042-02-02          | ASTM D6164                         | 07/27/11    |
|   | FBP-042-02-01          | ASTM D6164                         | 07/26/11    |
|   | FBP-043-02-01          | ASTM D6164                         | 08/02/11    |
|   | FBP-043-02-02          | ASTM D6164                         | 08/02/11    |
|   | FBP-043-02-04          | ASTM D6164                         | 07/26/11    |
|   | FBP-042-02-02          | ASTM D6164                         | 07/26/11    |
|   | FBP-043-02-03          | ASTM D6164                         | 07/26/11    |
|   | FBP-053-02-01          | ASTM D6163                         | 03/23/12    |
|   | FBP-059-02-01          | ASTM D1876                         | 07/20/12    |
|   | FBP-059-02-01 Rev 2    | ASTM D903/D1876<br>TAS 117/TAS 114 | 09/30/13    |
|   | FBP-071-02-01          | TAS 114-J                          | 04/25/12    |
|   | FBP-106-02-01          | TAS 114                            | 04/19/13    |
|   | FBP-113-02-01          | TAS 114                            | 04/17/13    |
|   | FBP-114-02-01          | TAS 114                            | 04/19/13    |
|   | FBP-118-02-01          | TAS 114                            | 07/24/13    |
|   | FBR-124-02-01          | TAS 114                            | 08/02/13    |
|   | FBP-132-02-01          | TAS 114                            | 08/23/13    |
|   | FBP-133-02-01 Rev 3    | TAS 114                            | 09/03/13    |

**EVIDENCE SUBMITTED:****Test Agency****Test Identifier****Description****Date**

|  |                     |         |          |
|--|---------------------|---------|----------|
|  | FBP-133-02-02       | TAS 114 | 08/27/13 |
|  | FBP-141-02-01       | TAS 114 | 12/18/13 |
|  | FBP-142-02-01       | TAS 114 | 08/28/13 |
|  | FBP-142-02-02 Rev 1 | TAS 114 | 10/01/13 |

## APPROVED ASSEMBLIES

|                          |   |
|--------------------------|---|
| <b>Membrane Type:</b>    | SBS/APP   |
| <b>Deck Type 3I:</b>     | Concrete, Insulated   |
| <b>Deck Description:</b> | Min. 2500 psi structural concrete or concrete plank.  |
| <b>System Type A(1):</b> | Insulation adhered with approved adhesive; membrane fully adhered.  |
| <b>Thermal Barrier:</b>  | Minimum ½” thick DensDeck, DensDeck Prime, or SECUROCK Gypsum-Fiber Roof Board mechanically attached with Firestone Concrete Drive or Firestone Heavy-Duty fasteners with Insulation Fastening Plate applied at a rate of 1 fastener per 2ft <sup>2</sup> . |

### All General and System Limitations apply.

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-½” thick                                      | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b>                            | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-½” thick                                      | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ¼” thick | N/A  | N/A   |

**Note:** All Insulations shall be adhered to the thermal barrier using I.S.O. Twin Pack Insulation Adhesive (except SECUROCK), applied ½” to ¾” wide ribbons spaced 12” o.c. or I.S.O. Fix II or I.S.O. Stick applied in continuous ¾” to 1” wide ribbons spaced 12” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3” lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3” lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3” lap. |





**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-45 psf.** (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(2):** Insulation adhered with approved adhesive; membrane fully adhered.  
**Vapor Retarder:** SBS Poly Torch or SBS Glass Torch Base torch adhered to the primed deck.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime</b><br>Minimum 1/4" thick      | N/A  | N/A   |

**Note: Concrete deck shall be primed with ASTM D-41 Primer. All Insulations shall be adhered to the vapor retarder using I.S.O. Twin Pack Insulation Adhesive, applied in 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS



Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-82.5 psf.** (See General Limitation #9)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS/APP  |
| <b>Deck Type 3I:</b>     | Concrete, Insulated  |
| <b>Deck Description:</b> | Min. 2500 psi structural concrete or concrete plank.               |
| <b>System Type A(3):</b> | Insulation adhered with approved adhesive; membrane fully adhered. |
| <b>Vapor Retarder:</b>   | BASEGARD SA base sheet is self-adhered to the primed concrete.     |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime</b><br>Minimum 1/4" thick      | N/A  | N/A   |

**Note: Concrete deck shall be primed with Firestone SA Primer. All Insulations shall be adhered to the vapor retarder using I.S.O. Twin Pack Insulation Adhesive, applied in continuous 1/2" to 3/4" wide ribbons spaced 8" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

|                    |  |
|--------------------|--|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3" lap.  |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.  |
| <b>Membrane:</b>   | One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.<br>Or<br>One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS |



Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-82.5 psf.** (See General Limitation #9)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS/APP  |
| <b>Deck Type 3I:</b>     | Concrete, Insulated  |
| <b>Deck Description:</b> | Min. 2500 psi structural concrete or concrete plank.               |
| <b>System Type A(4):</b> | Insulation adhered with approved adhesive; membrane fully adhered. |
| <b>Vapor Retarder:</b>   | BASEGARD SA base sheet is self-adhered to the primed concrete.     |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick                                      | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b>                              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick                                      | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/4" thick | N/A  | N/A   |

**Note: Concrete deck shall be primed with SA Primer. All Insulations shall be adhered to the vapor retarder using I.S.O. Stick Insulation Adhesive, applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3" lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap. |



**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-82.5 psf.** (See General Limitation #9)



**Membrane Type:** SBS

**Deck Type 3I:** Concrete, Insulated

**Deck Description:** Min. 2500 psi structural concrete or concrete plank.

**System Type A(5):** Insulation adhered with approved adhesive; membrane fully adhered.

**Vapor Retarder:** SBS Poly Torch or SBS Glass Torch Base torch adhered to the primed deck.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime</b><br>Minimum 1/2" thick      | N/A  | N/A   |

**Note:** Concrete deck shall be primed with ASTM D-41 primer, roller applied at a rate of 3/4 to 1 gal/square (0.3 to 0.4 L/m<sup>2</sup>). Insulation shall be adhered using I.S.O. Twin Pack Insulation Adhesive, applied in 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.





**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-82.5 psf.** (See General Limitation #9)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS/APP  |
| <b>Deck Type 3I:</b>     | Concrete, Insulated  |
| <b>Deck Description:</b> | Min. 2500 psi structural concrete or concrete plank.               |
| <b>System Type A(6):</b> | Insulation adhered with approved adhesive; membrane fully adhered. |
| <b>Vapor Retarder:</b>   | BASEGARD SA base sheet is self-adhered to the primed concrete.     |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD</b><br>Minimum 1/4" thick          | N/A  | N/A   |

**Note: Concrete deck shall be primed with SA Primer, roller applied at a rate of 200 ft<sup>2</sup>/gallon (4.9 m<sup>2</sup>/L) prior to application of vapor retarder. All Insulation shall be adhered to the vapor retarder using I.S.O. Stick, applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c. or I.S.O. Twin Pack Insulation Adhesive (except DensDeck Prime and SECUROCK) applied in continuous 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3" lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap. |



**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-90 psf.** (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(7):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>                                | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick                           | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>                                 | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL (tapered)</b><br>Minimum 1/2" thick with a 1/4" taper | N/A  | N/A   |

**Note: Concrete deck shall be primed with ASTM D-41 primer, roller applied at a rate of 3/4 to 1 gal/square (0.3 to 0.4 L/m<sup>2</sup>). All Insulations shall be adhered using I.S.O. Fix II applied in 3/4" wide ribbons spaced 8" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite, APP Premium FR, or APP Premium FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -112.5 psf. (See General Limitation #9)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS/APP  |
| <b>Deck Type 3I:</b>     | Concrete, Insulated  |
| <b>Deck Description:</b> | Min. 2500 psi structural concrete or concrete plank.               |
| <b>System Type A(8):</b> | Insulation adhered with approved adhesive; membrane fully adhered. |
| <b>Vapor Retarder:</b>   | BASEGARD SA base sheet is self-adhered to primed concrete deck.    |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick         | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD</b><br>Minimum 1/2" thick          | N/A  | N/A   |

**Note: Concrete deck shall be primed with SA Primer, roller applied at a rate of 200 ft<sup>2</sup>/gallon (4.9 m<sup>2</sup>/L). All Insulations shall be adhered to the vapor retarder using I.S.O. Twin Pack Insulation Adhesive, applied in continuous 1/2" to 3/4" wide ribbons spaced 8" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3" lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap. |

**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-112.5 psf.** (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(9):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>RESISTA</b><br>Minimum 1-1/2" thick           | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>RESISTA</b><br>Minimum 1-1/2" thick           | N/A  | N/A   |
| <b><u>(Optional) Top Insulation Layer</u></b>    | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>RESISTA</b><br>Minimum 1/2" thick             | N/A  | N/A   |

**Note: All Insulations shall be adhered with I.S.O. Twin Pack Insulation Adhesive or I.S.O. Stick applied in continuous 1/2" to 3/4" wide ribbons spaced 12" o.c. or I.S.O. Fix II applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.



**Membrane:**

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite, APP Premium FR, or APP Premium FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.

Or

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design  
Pressure:**

**-112.5 psf.** (See General Limitation #9)





**Membrane Type:** APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(10):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>                                | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick                           | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b>                   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick                           | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>                                 | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL (tapered)</b><br>Minimum 1/2" thick with a 1/4" taper | N/A  | N/A   |

**Note:** All Insulations shall be adhered using I.S.O. Twin Pack Insulation Adhesive applied in continuous 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.  
**Ply Sheet:** None  
**Membrane:** One ply of APP 180, APP 180 UltraWhite, APP 180 FR, APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
**Maximum Design Pressure:** -112.5 psf. (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(11):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick  | N/A  | N/A   |
| <b><u>(Optional) Middle Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL</b><br>Minimum 1-1/2" thick  | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/2" thick | N/A  | N/A   |

**Note:** All Insulations shall be adhered using I.S.O. Stick, applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c. or with I.S.O. Twin Pack Insulation Adhesive (except DensDeck Prime and SECUROCK), applied in 1/2" to 3/4" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** None

**Membrane:** One ply of SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
 Or  
 One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq with a 3" lap.

**Maximum Design Pressure:** -187.5 psf.; Asphalt applied membranes (See General Limitation #9)  
 -217.5 psf.; Torch applied membranes (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(12):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Insulation Layer</u>   | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|---|---|--|
| <b>ISOGARD HD, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/2" thick | N/A                                       | N/A  |

**Note:** All Insulations shall be adhered using I.S.O. Fix II applied in 3/4" to 1" wide ribbons spaced 4" o.c. or I.S.O. Stick applied in continuous 3/4" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** None

**Membrane:** One ply of SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
 Or  
 One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap

**Maximum Design Pressure:** -187.5 psf.; Asphalt applied membranes (See General Limitation #9)  
 -217.5 psf.; Torch applied membranes (See General Limitation #9)



**Membrane Type:** SBS  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(13):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Insulation Layer</u>                | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ISO 95+GL</b><br>Minimum 1.5" thick | N/A                                       | N/A  |

**Note: All Insulations shall be adhered using I.S.O. Fix II applied in ¾" wide ribbons spaced 8" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment.**

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** None

**Membrane:** One ply of SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
 Or  
 One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap

**Maximum Design Pressure:** -210 psf.; Torch applied membranes (See General Limitation #9)  
 -247.5 psf.; Asphalt applied membranes (See General Limitation #9)

**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete, Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank.  
**System Type A(14):** Insulation adhered with approved adhesive; membrane fully adhered.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <u>Insulation Layer</u>  | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 0.25" thick | N/A                                       | N/A  |

**Note:** Insulation shall be adhered with I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" wide ribbons spaced 12" o.c. , I.S.O. Fix II or I.S.O. Stick applied in ¾" to 1" wide ribbons spaced 12" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
 Or  
 One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded. while maintaining minimum 3" side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
 Or  
 One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite heat welded while maintaining minimum 3" side laps.

**Maximum Design Pressure:** -227.5 psf. (See General Limitation #9)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS  |
| <b>Deck Type 3I:</b>     | Concrete Decks, Insulated  |
| <b>Deck Description:</b> | 2500 psi structural concrete or concrete plank   |
| <b>System Type B(1):</b> | Base layer of insulation mechanically attached, top layer adhered with approved adhesive.<br>Membrane fully adhered. |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>     | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL</b><br>Minimum 2.0" thick | 1 or 2 with 3                                    | 1:1 ft <sup>2</sup>                               |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/2" thick | N/A  | N/A   |

**Note:** Top layer of insulation shall be adhered with I.S.O. Twin Pack Insulation Adhesive (except SECUROCK) applied in 1/2" to 3/4" wide ribbons spaced 4" o.c. or with I.S.O. Fix II (except SECUROCK) or I.S.O. Stick applied in 3/4" to 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3.5" lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3.5" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3.5" lap. |



**Membrane:**

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite, SBS Glass, cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. Minimum 3.5" side and end laps are sealed with hot asphalt.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3.5" lap.

**Maximum Design  
Pressure:**

**-67.5 psf.** (See General Limitation #7)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS  |
| <b>Deck Type 3I:</b>     | Concrete Decks, Insulated  |
| <b>Deck Description:</b> | 2500 psi structural concrete or concrete plank   |
| <b>System Type B(2):</b> | Base layer of insulation mechanically attached, top layer adhered with approved adhesive.<br>Membrane fully adhered. |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>     | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL</b><br>Minimum 2.0" thick | 1 or 2 with 3                                    | 1:1 ft <sup>2</sup>                               |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISOGARD HD, DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/2" thick | N/A  | N/A   |

**Note:** Top layer of insulation shall be adhered with I.S.O. Twin Pack Insulation (except DensDeck Prime and SECUROCK) Adhesive applied in 1/2" to 3/4" wide ribbons spaced 4" o.c. or with I.S.O. Fix II (except DensDeck and SECUROCK) or I.S.O. Stick applied in 3/4" to 1" wide ribbons spaced 4" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered with a 3.5" lap.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3.5" lap.<br>or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3.5" lap. |





**Membrane:**

One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite, SBS Glass, SBS Glass FR, or SBS Glass FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. Minimum 3.5" side and end laps are sealed with hot asphalt.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3.5" lap.

**Maximum Design  
Pressure:**

**-105 psf.** (See General Limitation #7)



|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS  |
| <b>Deck Type 3I:</b>     | Concrete Decks, Insulated  |
| <b>Deck Description:</b> | 2500 psi structural concrete or concrete plank   |
| <b>System Type B(3):</b> | Base layer of insulation mechanically attached, top layer adhered with approved adhesive.<br>Membrane fully adhered. |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>            | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL, RESISTA</b><br>Minimum 1½” thick | 1 or 2 with 3                                    | 1:1.6 ft <sup>2</sup>                             |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½” thick | N/A  | N/A   |

**Note:** Top layer of insulation shall be adhered with I.S.O. Twin Pack Insulation Adhesive applied in ½” to ¾” wide ribbons spaced 6” o.c. (not with SECUROCK) or with I.S.O. Fix II or I.S.O. Stick applied in ¾” to 1” wide ribbons spaced 6” o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

|                    |   |
|--------------------|---|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.  |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum ¾” side laps.<br>Or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded. while maintaining minimum ¾” side laps. |



**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3¼” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite heat welded while maintaining minimum 3¼” side laps.

**Maximum Design Pressure:** -52.5 psf. (See General Limitation #7)

|                          |  |
|--------------------------|--|
| <b>Membrane Type:</b>    | SBS  |
| <b>Deck Type 3I:</b>     | Concrete Decks, Insulated  |
| <b>Deck Description:</b> | 2500 psi structural concrete or concrete plank   |
| <b>System Type B(4):</b> | Base layer of insulation mechanically attached, top layer adhered with approved adhesive.<br>Membrane fully adhered. |

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer (Optional)</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum 2" thick           | 1 or 2 with 3                                    | 1:1.6 ft <sup>2</sup>                             |

**Note:** Base layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

| <b><u>Middle Insulation Layer</u></b> | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---------------------------------------|--|---|
| <b>ISO 95+GL</b><br>Minimum ½" thick  | N/A  | N/A   |

| <b><u>Top Insulation Layer</u></b>                          | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½" thick | N/A  | N/A   |

**Note:** Middle and Top insulation layers shall be adhered with I.S.O. Twin Pack Insulation Adhesive applied in ½" to ¾" wide ribbons spaced 6" o.c. (not with SECUROCK) or with I.S.O. Fix II or I.S.O. Stick applied in ¾" to 1" wide ribbons spaced 6" o.c. Please refer to Roofing Application Standard RAS 117 for insulation attachment. Composite insulation boards used as a top layer shall be installed with the polyisocyanurate face down.

|                    |  |
|--------------------|--|
| <b>Base Sheet:</b> | One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.   |
| <b>Ply Sheet:</b>  | (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps<br>Or<br>One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded. while maintaining minimum 3" side laps. |



**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -67.5 psf. (See General Limitation #7)

**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(1):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <b><u>Base Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum: 1-1/2" thick                                      | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum: 1/4" thick | 1 or 2 with 3                                    | 1:2 ft <sup>2</sup>                               |

**Note:** Top Layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(2):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <b><u>Base Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL</b><br>Minimum: 1-1/2" thick                                      | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum: 1/2" thick | 1 or 2 with 3                                    | 1:1.33 ft <sup>2</sup>                            |

**Note:** Top Layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #7)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(3):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <u>Insulation Layer</u>                            | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 1-1/2" thick | 1 or 2 with 3                             | 1:2 ft <sup>2</sup>                        |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)





**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(4):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <u>Insulation Layer</u>                            | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 1-1/2" thick | 1 or 2 with 3                             | 1:2.67 ft <sup>2</sup>                     |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(5):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <u>Insulation Layer</u>                          | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 2.0" thick | 1 or 2 with 3                             | 1:4 ft <sup>2</sup>                        |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(6):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <u>Insulation Layer</u>                | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>RESISTA</b><br>Minimum 1-1/2" thick | 1 or 2 with 3                             | 1:2.7 ft <sup>2</sup>                      |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #9)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(7):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <u>Insulation Layer</u>                            | <u>Insulation Fasteners<br/>(Table 3)</u> | <u>Fastener<br/>Density/ft<sup>2</sup></u> |
|--|---|--|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 1-1/2" thick | 1 or 2 with 3                             | 1:1.33 ft <sup>2</sup>                     |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -45 psf. (See General Limitation #7)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type (C8):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <b><u>Base Insulation Layer (Optional)</u></b>                         | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+ GL</b><br>Minimum ½” thick                                  | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>                                     | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+ GL, RESISTA, ISOGARD HD Composite</b><br>Minimum 1-½” thick | 1 or 2 with 3                                    | 1:1.78 ft <sup>2</sup>                            |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3” side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -60 psf. (See General Limitation #7)



**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(8):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL, RESISTA</b><br>Minimum ½” thick                               | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½” thick | 1 or 2 with 3                                    | 1:1.6 ft <sup>2</sup>                             |
| <b>RESISTA</b><br>Minimum: 1” thick   | 1 or 2 with 3                                    | 1:1.6 ft <sup>2</sup>                             |

**Note:** Top Layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
 Or  
 One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3” side laps.



**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -67.5 psf. (See General Limitation #7)

**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(9):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>                           | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL, RESISTA</b><br>Minimum 1" thick                 | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>                            | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/4" thick | 1 or 2 with 3                                    | 1:1.78 ft <sup>2</sup>                            |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3" side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3" side laps.

**Maximum Design Pressure:** -67.5 psf. (See General Limitation #7)





**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(10):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer (Optional)</u></b>              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+GL, RESISTA</b><br>Minimum 1" thick               | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>                          | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½" thick | 4 with 3   | 1:1.78 ft <sup>2</sup>                            |

**Note:** Top Layer shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3" side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3" side laps.

**Maximum Design Pressure:** -75 psf. (See General Limitation #7)



**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(11):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer (Optional)</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum ½” thick   | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD Composite</b><br>Minimum 1½” thick | 1 or 2 with 3                                    | 1:1.78 ft <sup>2</sup>                            |

**Note: Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).**

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3” side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -75 psf. (See General Limitation #7)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type (C12):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <b><u>Base Insulation Layer (Optional)</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum ½” thick   | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>               | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD Composite</b><br>Minimum 1½” thick | 1 or 2 with 3                                    | 1:2.67 ft <sup>2</sup>                            |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3” side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -60 psf. (See General Limitation #7)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type(C13):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

| <b><u>Base Insulation Layer (Optional)</u></b>                              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 1" thick                              | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISOGARD HD</b><br>Minimum ½" thick                                       | 1 or 2 with 3                                    | 1:1.33 ft <sup>2</sup>                            |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ¼" thick | 1 or 2 with 3                                    | 1:1.33 ft <sup>2</sup>                            |
| <b>RESISTA</b><br>Minimum 1" thick  | 1 or 2 with 3                                    | 1:1.33 ft <sup>2</sup>                            |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
 Or  
 One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3" side laps.



**Membrane:**

One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.

Or

One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3" side laps.

**Maximum Design**

**Pressure:**

**-52.5 psf.** (See General Limitation #7)



**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(14):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|--|--|---|
| <b>ISO 95+GL, RESISTA</b><br>Minimum 2" thick                                  | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>   | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>Dens Deck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum 1/2" thick | 1 or 2 with 3                                    | 1:1.33 ft <sup>2</sup>                            |

**Note:** All Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3" side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3" side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3" side laps.

**Maximum Design Pressure:** -75 psf. (See General Limitation #7)



**Membrane Type:** SBS  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type C(15):** Membrane fully adhered over mechanically fastened insulation.

**All General and System Limitations apply.**

One or more layers of any of the following insulations.

| <b><u>Base Insulation Layer (Optional)</u></b>                              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum ½” thick                              | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+GL, RESISTA</b><br>Minimum 2” thick                               | 1 with 3   | 1:2.67 ft <sup>2</sup>                            |
| <b>ISOGARD HD Composite</b><br>Minimum 1½” thick                            | 1 with 3   | 1:2.67 ft <sup>2</sup>                            |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½” thick | 1 with 3   | 1:2.67 ft <sup>2</sup>                            |

**Note: Insulation shall be mechanically attached with fasteners and density described above. Insulation panels listed are minimum sizes and dimensions; if larger panels are used the number of fasteners per board shall be increased maintaining the same fastener density (See Roofing Application Standard RAS 117 for fastening details).**

**Base Sheet:** One ply of BASEGARD SA, self-adhered while maintaining minimum 3” side laps.

**Ply Sheet:** (Optional) One or more plies of SBS Base, Ply IV, Ply VI, SBS Poly Base, SBS Smooth or SBS Premium Base fully adhered with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
 Or  
 One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded while maintaining minimum 3” side laps.



**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -45 psf. (See General Limitation #7)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type D(1):** All layers of insulation simultaneously mechanically fastened with base sheet

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

| <b><u>Base Insulation Layer (Optional)</u></b>                              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum ½” thick                              | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+ GL, RESISTA, ISOGARD HD Composite</b><br>Minimum 1½” thick       | N/A  | N/A   |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ½” thick | N/A  | N/A   |

**Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.**

**Base Sheet:** One ply of SBS Poly Base mechanically fastened through the insulation with Firestone Heavy-Duty fasteners and Coiled Metal Batten Strip spaced 18" o.c. at the minimum 3" side laps.

**Ply Sheet:** One ply of BASEGARD SA self-adhered to base sheet with minimum 3” side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3” side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3” side laps.

**Maximum Design Pressure:** -52.5 psf (See General Limitation #7.)



**Membrane Type:** SBS/APP  
**Deck Type 3I:** Concrete Decks, Insulated  
**Deck Description:** 2500 psi structural concrete or concrete plank  
**System Type D(2):** All layers of insulation simultaneously mechanically fastened with base sheet

**All General and System Limitations apply. Roof accessories not listed in Table 1 of this NOA are not approved and shall not be installed unless said accessories demonstrate compliance with prescriptive Florida Building Code requirements and are field fabricated utilizing the approved membranes listed in Table 1.**

| <b><u>Base Insulation Layer (Optional)</u></b>                              | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
|---|--|---|
| <b>ISO 95+ GL, RESISTA</b><br>Minimum ½” thick                              | N/A  | N/A   |
| <b><u>Top Insulation Layer</u></b>  | <b><u>Insulation Fasteners<br/>(Table 3)</u></b> | <b><u>Fastener<br/>Density/ft<sup>2</sup></u></b> |
| <b>ISO 95+ GL, RESISTA</b><br>Minimum 1” thick                              | N/A  | N/A   |
| <b>ISOGARD HD Composite</b><br>Minimum 1½” thick                            | N/A  | N/A   |
| <b>DensDeck Prime, SECUROCK Gypsum-Fiber Roof Board</b><br>Minimum ¼” thick | N/A  | N/A   |

**Note: Insulation shall be loose-laid and membrane mechanically fastened. See base sheet attachment below for fasteners and density. Refer to Roofing Application Standard RAS 117 for insulation attachment requirements.**

**Base Sheet:** One ply of SBS Base mechanically fastened through the insulation with Firestone Heavy-Duty fasteners or Firestone Concrete Drive and Firestone Insulation Fastening Plates spaced 12" o.c. at the minimum 3.4" side laps and 12" o.c. in two staggered rows in the field of the roll.

**Ply Sheet:** One ply of BASEGARD SA self-adhered to base sheet with minimum 3" side laps.

**Membrane:** One ply of SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Cap, SBS Cap UltraWhite, SBS Premium, SBS Premium FR, or SBS Premium FR UltraWhite fully bonded with hot asphalt adhesive applied within the EVT range and at a rate of 25-30 lbs./sq. while maintaining minimum 3" side laps.  
Or  
One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite SBS Premium FR Torch, SBS Premium FR Torch UltraWhite while maintaining 3" side laps.

**Maximum Design Pressure:** -60 psf (See General Limitation #7.)



**Membrane Type:** SBS/APP  
**Deck Type 3:** Concrete, Non-Insulated  
**Deck Description:** Min. 2500 psi structural concrete or concrete plank  
**System Type F(1):** Membrane adhered to substrate

**All General and System Limitations Apply.**

**Primer:** ASTM D-41 primer applied at a rate of  $\frac{3}{4}$  - 1 gal/square.

**Base Sheet:** One ply of BASEGARD SA, self-adhered with a 3" lap.

**Ply Sheet:** (Optional) One or more plies of Ply IV, Ply VI, SBS Poly Base, SBS Smooth, SBS Base, or SBS Premium Base with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.  
or  
One or more plies of SBS Glass Torch Base or SBS Poly Torch Base heat welded with a 3" lap.

**Membrane:** One ply of SBS Glass FR Torch, SBS Glass FR Torch UltraWhite, SBS Torch, SBS Torch UltraWhite, SBS Premium Torch, SBS Premium Torch UltraWhite, SBS FR Torch, SBS FR Torch UltraWhite, SBS Premium FR Torch, SBS Premium FR Torch UltraWhite, APP 180, APP 180 UltraWhite, APP 180 FR or APP 180 FR UltraWhite cap sheet torch adhered to the base sheet with a 3" lap.  
Or  
One ply of SBS Cap, SBS Cap UltraWhite, SBS FR Cap, SBS FR Cap UltraWhite, SBS Glass, SBS Glass FR, SBS Glass FR UltraWhite, SBS Premium, SBS Premium FR or SBS Premium FR UltraWhite cap sheet fully adhered to the base sheet with hot asphalt adhesive applied within the EVT range and at a rate of 20-40 lbs./sq. with a 3" lap.

**Maximum Design Pressure:** -135 psf. (See General Limitation #9)

## CONCRETE DECK SYSTEM LIMITATIONS:

1. If mechanical attachment to the structural deck through the lightweight insulating concrete is proposed, a field withdrawal resistance testing shall be performed to determine equivalent or enhanced fastener patterns and density. All testing and fastening design shall be in compliance with Testing Application Standard TAS 105 and Roofing Application Standard RAS 117, calculations shall be signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant.

## GENERAL LIMITATIONS:

1. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
2. Insulation may be installed in multiple layers. The first layer shall be attached in compliance with Product Control Approval guidelines. All other layers shall be adhered in a full mopping of approved asphalt applied within the EVT range and at a rate of 20-40 lbs./sq., or mechanically attached using the fastening pattern of the top layer
3. All standard panel sizes are acceptable for mechanical attachment. When applied in approved asphalt, panel size shall be 4' x 4' maximum.
4. An overlay and/or recovery board insulation panel is required on all applications over closed cell foam insulations when the base sheet is fully mopped. If no recovery board is used the base sheet shall be applied using spot mopping with approved asphalt, 12" diameter circles, 24" o.c.; or strip mopped 8" ribbons in three rows, one at each sidelap and one down the center of the sheet allowing a continuous area of ventilation. Encircling of the strips is not acceptable. A 6" break shall be placed every 12' in each ribbon to allow cross ventilation. Asphalt application of either system shall be at a minimum rate of 12 lbs./sq. **Note: Spot attached systems shall be limited to a maximum design pressure of -45 psf.**
5. Fastener spacing for insulation attachment is based on a Minimum Characteristic Force (F') value of 275 lbf., as tested in compliance with Testing Application Standard TAS 105. If the fastener value, as field-tested, are below 275 lbf. insulation attachment shall not be acceptable.
6. Fastener spacing for mechanical attachment of anchor/base sheet or membrane attachment is based on a minimum fastener resistance value in conjunction with the maximum design value listed within a specific system. Should the fastener resistance be less than that required, as determined by the Building Official, a revised fastener spacing, prepared, signed and sealed by a Florida Registered Engineer, Architect, or Registered Roof Consultant may be submitted. Said revised fastener spacing shall utilize the withdrawal resistance value taken from Testing Application Standards TAS 105 and calculations in compliance with Roofing Application Standard RAS 117.
7. Perimeter and corner areas shall comply with the enhanced uplift pressure requirements of these areas. Fastener densities shall be increased for both insulation and base sheet as calculated in compliance with Roofing Application Standard RAS 117. Calculations prepared, signed and sealed by a Florida registered Professional Engineer, Registered Architect, or Registered Roof Consultant **(When this limitation is specifically referred within this NOA, General Limitation #9 will not be applicable.)**
8. All attachment and sizing of perimeter nailers, metal profile, and/or flashing termination designs shall conform with Roofing Application Standard RAS 111 and applicable wind load requirements.
9. The maximum designed pressure limitation listed shall be applicable to all roof pressure zones (i.e. field, perimeters, and corners). Neither rational analysis, nor extrapolation shall be permitted for enhanced fastening at enhanced pressure zones (i.e. perimeters, extended corners and corners). **(When this limitation is specifically referred within this NOA, General Limitation #7 will not be applicable.)**
10. All products listed herein shall have a quality assurance audit in accordance with the Florida Building Code and Rule 61G20-3 of the Florida Administrative Code.

**END OF THIS ACCEPTANCE**